Each

20 Um:

Thursday, 1/17/2008 3:25:38 PM Date Kim Johnston _User: **Process Sheet Drawing Name** : PLACARD : CU-DAR001 Dart Helicopters Services Customer Job Number : 10127 **Estimate Number** Part Number : D2268 P.O. Number D2268 REV B1 : 1/17/2008 S.O. No. : **Drawing Number** This Issue : N/A : NC Prsht Rev. Project Number : // Type : PURCHASED PARTS : B1 First Issue **Drawing Revision** : 35801 Material Previous Run **Due Date** : 1/24/2008 Qty: Written By Checked & Approved By : Est: В 01.04.09 Re-format Comment **Additional Product** Job Number: Description: Seq. #: Machine Or Operation: PURCHASING 1.0 PG Comment: PURCHASING c 208/00/18 Issue P/0: 5491 Make per Dwg D2268Manufacture from 3M 7mil masking film p/n 8522CP Material release note required 2.0 D2268P Placard Comment: Qty.: 1.0000 Each(s)/Unit Total: 20.0000 Each(s) **PLACARD** 3.0 PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Receive and Inspect for transit damage Ensure material release note is attached 4.0 QC6

Comment: DIMENSIONAL CHECK

PACKAGING : PACKAGING RESOURCE #1

Comment: PACKAGING RESOURCE #1

Identify and Stock Location:

/ s/21/24

Dart Ae	rospace L	.td								
W/O:			W	ORK ORDER CH	ANGES					1.4.
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No		PAR #:	Fault Cate	gory:	NCI				_ Date: _	
NCR:		,	WORK ORD	ER NON-CONFO	RMANCE					
		Description of NC		Corrective Action	Section B		Vorifi	cation	Approval	Approval
DATE		Section A	Initial Chief Eng	Action Descrip	otion	Sign & Date		on C	Chief Eng	QC Inspector
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NOTE: Date & initial all entries

Date:

Thursday, 1/17/2008 3:25:38 PM

User:

Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: PLACARD

Job Number: 36823

Part Number: D2268

Job Number:



Seq. #:

Machine Or Operation:

Description:

6.0

QC21

FINAL INSPECTION/W/O RELEASE





08,01.25

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



2008/1/24



Dart Ae	rospace	Ltd							
W/O:		11.3	W	ORK ORDER CHANGES	3				· - x
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NOTE: Date & initial all entries



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CHEC		APPROVED	DRAWING NO.	REV. B
B	\sim	$\langle \mathcal{A} \rangle$	D2268 SHEET	1 OF 1
DATE		<u> </u>	TITLE	SCALE
96:0	05:27		PLACARD	1:1
В		96.05.29	UPDATED PLACARD	
βì		01.04.10	ADD MAKERIAL NOTE of UP	

TOTAL WEIGHT IN THIS COMPARTMENT NOT TO EXCEED 15 lbs. (7Kg.)



MATERIAL: BLACK LETTERS ON WHITE ADHESIVE BACK MANUFACTURED FROM 3M 7 MIL MASKING FILM #8522 GNCONTROLLED COPY

SHOP COPY SUBJECT TO AMENDMENT

WITHOUT NOTICE



210 MAIN W., HAWKESBURY, ONT. K6A 2H6

Tel.: 613 632-5449 Fax: 613 632-9491

www.studiolettrage.on.ca

INVOICE / FACTURE

No.:

9728

DATE:

01/18/2008

PAGE

1 of 1

Re: Quote No. 4460

VENDU À: SOLD TO:

> Dart Aerospace Ltd 1270 Aberdeen Hawkesbury, Ontario K6A 1K7

Dart Aerospace Ltd

Hawkesbury, Ontario

ITEM QTY ARTICLE QYÉ	UNIT UNITÉ	DESCRIPTION	OST TPS	PST TVP	UNIT PRICE PRIX UNITE	AMOUNT MONTANT
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		GST/TPS: R122278690				
					TOTAL	183.75

Sold By:

Merci! Thank You!

PRODUCT DATA BULLETIN



Product Data Bulletin: A5-0

Avery Graphics™ A5 Opaque 5-year INTERMEDIATE calendered vinyl film

Dated: 10/3/02

Avery Graphics TM A5 Opaque intermediate films are flexible, high-gloss calendered vinyls designed for use on computer sign cutting equipment. This construction provides excellent cutting, weeding and transferring characteristics for signage applications.

Application information can be found in the Avery Graphics Application Guide.

For surface preparation, converting and printing, and application and removal instructions, please refer to the Avery Graphics Instructional Bulletin.

Construction:

- Face Film: 3.2 mils opaque medium gloss intermediate calendered vinyl film
- Adhesive: 1.0 mil clear acrylic permanent solvent pressure-sensitive adhesive
- Liner: 78# bleached white kraft

The following information on physical and chemical characteristics is based upon tests believed to be reliable. The values are intended only as a source of information. They are given without guarantee and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of this material for his/her specific purpose. (Data represents averages and is not intended for use as a specification).

- Outdoor durability: 5 years when properly processed and applied (vertical exposure, unprinted film)**
- Application surface contours: Flat and simple curves
- Minimum surface and air application temperature: +50° F (10° C)
- Service Temperature Range: -40° F to +180° F (-40° C to 82° C) (Reasonable range of temperatures which would be expected under normal environmental time and temperature conditions)
- Typical Chemical Resistance: Resistant to most mild acids, alkalis and salt solutions. See instructional bulletin for recommendations on cleaning.
- Shelf Life: One year when stored at the following temperatures and humidity conditions: 68°-77° F (20° - 25° C) and 50±5% R. H.
- Typical Adhesion Values: 180° Peels

1 week 24 hrs Substrate 5.1 lbs/in 4.4 lbs/in Stainless Steel 5.3 lbs/in 4.7 lbs/in NOTE: Tested per ASTMD 1000. Always pre-test your specific substrate prior to actual

application.

Reflectivity: NA

Typical Gloss*: 70 at 60°

Avery Graphics™ A5 Opaque page 1 of 2 AnswerLine: 800-443-9380 Signage averygraphics.com

Product Bulletin 8522

3M

Release F, Effective January 2003 Black bar in margin indicates a change

Scotchcal [™] Opaque Imaging Media 8522

Description

This media is specially formulated to dry quickly after printing. Production of outdoor weatherable and long-term indoor durable graphics is now easier than ever. Its changeable adhesive allows easy removal for up to one year.

Advantages

- Optimized for use with selected Epson Stylus Proprinters and Epson Archival inks.
- Ortimized for use with selected HP DesignJet Printers and HP DesignJet Ink System UV or HP83UV Color Ink System
- For making opaque, laminated graphics that are outdoor weatherable and long-term indoor durable
- Media:
 - For opaque (reflective) graphics
 - Changeable, easy to remove from warranted substrates up to 1 year later
 - Dries quickly after printing so the overlaminate can be applied almost immediately
 - Low stippage paper liner for superior tiling
- ()verlaminates:
 - Provide additional UV (ultraviolet) and physical protection for making weatherable finished graphics
 - Available in luster and matte gloss
 - Adhesive allows for heat-assisted or cold-temperature

Applications and Uses

is included only for ink jet printing and for use with the listed Compatible Products and Equipment and the following applications. Any other application is NOT warranted by 3M or covered by the worldwide 3M \(^\circ\) MCS \(^\circ\) Warranty unless 3M gives its prior written approval for the application.

- First surface images (the image is on top of the film) for opaque posters and signs, including:
 - Graphics for vans, personal vehicles, trucks and buses
 - . Novelty posters
 - Retail and point-of-purchase displays
 - Information graphics such as maps and directories
 - Entertainment promotions in museums, zoos, parks, theatres, sports venues
 - . Education and presentation graphics

- Legal and courtroom exhibits
- For flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications

Limitations of End Uses

The following uses and applications are specifically NOT warranted.

- Fleet applications in areas that use salt for winter road maintenance
- Application to non-warranted substrates, including wallboard.
- Applications subjected to gasoline vapors or spills
- Application to corrugated or highly irregular surfaces or sharply raised areas
- Graphics applied to stainless steel, including stainless steel vehicles
- On flat surfaces with rivets, tenting of 4 to 10 mm around rivets may be expected; rivets may be cut around to eliminate tenting.

Note: Standard ink jet technology is water based. Water-based chemistry is susceptible to the extremes of heat and humidity. This is a factor in most product constructions on the market. Read the Fabrication. Shelf Life and Storage sections in this bulletin. Staying in the middle of these ranges always provides optimum performance.

Compatible Products and Equipment

Thermal Ink Jet Printing Systems

- Epson Stylus Pro 9500, Stylus Pro 10000 printer
 - Epson Archival Inks
- Epson Stylus Pro 10600 printer
 - Epson Archival Inks
- HP DesignJet Printers 2000 and 3000 series
 - HP DesignJet Ink System UV (pigment-based ink)
- HP DesignJet Printers 5000 series
 - HP83UV Color Ink System

Overlaminates (required)

- 3M ** Luster Overlaminate 8519 (semi-gloss)
- 3M Matte Overlaminate 8520

Note: For the full product names of the 3M products listed on this page, please see page 1.

Warranted Substrates

Media 8522 is warranted for use on the following rigid substrates.

Some substrates may "out-gas", resulting in tiny bubbles throughout the surface of the graphic. For maximum performance, he sure the substrate you select is properly cleaned and prepared as recommended by the manufacturer. See Instruction Bulletin 5.1 for additional information.

- Alodine (anodized aluminum)
- Automotive panels (automotive painted steel)
- Fruehauf (painted aluminum)
- * FRP (liberglass reinforced plywood)
- · Gass
- Imron f (polyurethane-painted metal panel)
- Acrylic
- Sintra "board

Test and Approve Non-warranted Substrates Before Use

Media 8522 is not warranted for any substrate other than those listed above. If you want to use it for other substrates, 3M recommends that you test and approve the media for both adhesion and removal characteristics.

Characteristics

Characteristic	Description
Media	7 mil. white, opaque graphic film
Liner	Low-slippage, lay flat paper
Adhesive	Changeable, pressure sensitive
Thickness (media and adhesive)	7.5 to 8 mil (nominal)
Application substrates	See Warranted Substrates, above
Application surfaces	Flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications (no corrugations)
Application temperature range	28° to 110°F (-2° to 43°C) (air and surface)
Roll sizes	36" x 45 feet (914 mm x 13.5 m) 54" x 45 feet (1372 mm x 13.5 m)

How to Become a 3M Ink Jet Registered Fabricator

Only 3M Thermal Ink Jet Registered Fabricators are eligible to offer 3M MCS warranted graphics. In order to become certified, a fabricator must complete the requirements as specified in the 3M Ink Jet Graphics Registered Fabricator Reference Manual located on the 3M website at www. scotchprint.com

Effective Performance Life

To obtain the warranty given below, the graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3. Also see the section, Removability.

Warranted Durability

Media 8522	Epson Pr	inters	HP Printers			
with Overlaminate 8519 or 8520	Outdoor	Indoor	Outdoor	Indoor		
Applied to Warranted Substrates	2 years	5 years	3 years	5 years		

Removability

Imaging media 8522 is removable from warranted substrates for I year without the aid of chemical strippers or accessories. Refer to Instruction Bulletin 4.23 for additional information.

Fabrication

Graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3.

See Instruction Bulletin 4.23 for detailed fabrication, printing and mounting information.

Graphic Construction Options

Opaque (Reflective) Graphics

Opaque graphics made with imaging media 8522 require an overlaminate and an opaque substrate.

*	
Viewer/Light Source	
	Overlaminate 8519, 8520
	Adhesive on bottom
	Imaging Media 8522
	Image on top; adhesive on bottom
	Opaque Substrate

Note: For the full product names of the 3M products listed on this page, please see page 1.

Shelf Life and Storage

- 3M Scotchcal Changeable Opaque Imaging Media 8522 has a shelf life of one year.
- Storage conditions (new and partially used rolls). For optimum performance, use the middle of these ranges:
 - Original packaging, including plastic wrap
 - Relative humidity of 20% to 80%
 - Temperature of 33° to 104°F (0° to 40°C)
 - Away from direct sunlight
- Do not stack unprotected rolls or lay sharp or heavy objects on them.

Health and Safety

Wher handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information.

To obtain MSDS sheets for 3M products:

- By fax, call 1-800-364-0768 in the US and Canada or 1-650-556-8417 for all other locations.
- Electronically, visit us at http://www.3M.com/msds.
- · By mail, or in case of an emergency, call 1.800-364-3577 or 1-651-737-6501.

When using any equipment, always follow the manufacturers instructions for safe operation.

Warranty and Limited Remedies

3M * MCS * Warranty for Graphics Produced on HP DesignJet Printers and Epson Stylus Pro Printers

The following is made in lieu of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose. We warrant graphics produced by a 3M Ink Jet Registered Fabricator made with imaging media 8522, printed on an approved HP thermal ink jet printer according to HP's recommendations or Epson Stylus Pro printer according to Epson's recommendations, overtaminated with 8519 or 8520, and applied to a Warranted Substrate according to 3M's recommendations. These

graphics are covered against failure caused by ultraviolet light, temperature extremes, pollution, and other elements.

If a graphic fails to perform in accordance with 3M product specifications within this time frame, 3M will replace the materials at no charge. These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor charges.

3M Related Literature

Listed below is related 3M technical literature that may be of interest. You may view and print these Bulletins from our Web site at www.scotchprint.com, or order them via our Faxon-Demand (FOD) system. Call one of these phone numbers to order the desired bulletins, and specify the FOD document number provided in the chart.

United States or Canada: 1-800-364-0768

International: 1-651-732-6506

International: 1-651-732-6506 Subject	Bulletin No.	FOD No.
Product Bulletins		
3M "Scotchcal" Overlaminate 8519 and 8520	8519/8520	4524
Instruction Bulletins	т	
Making thermal ink jet graphics	4.23	6523
Application, substrate selection, preparation and substrate-specific application techniques	5.1	! 7001
Warranties		050
Worldwide 3M." MCS." Warranty Packs (includes all Commercial Graphics MCS Wo	77011111111	9503
Worldwide 3M ™ MCS™ Warranty Overv	iew-Folder	9504

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Bulletin Change Summary

The Epson Stylus Pro Printers 9500, 10000 10600, and Epson Archival Inks have been added to this bulletin. Additional changes resulting from this addition are marked with black bars in the margin.

Commercial Graphics Division 3M Center, Building 220-6W-06 PO Box 33220 St. Paul, MN 55133-3220 USA General Info. 1-800-374-6772 Technical Info. 1-800-328-3908 trax 1-651-736-4233

3M Canada P.O. Box 5757 London, Ontario Canada N6A 4T1 1-800-265-1840 Fax 519-452-6245

bax on-Demand 1-800-364-0768 US/Canada or 1-651 732-6506 International Fax on-Demand document, 4506 was scotchprint.com

3M México, S.A. de C.V.

Av. Santa Fe No. 55 Col. Santa Fe. Del. Alvaro Obregón México, D.F. 01210 52-55-52-7()-()4-(X) Fux 52-55-52-70-22-77

3M Puerto Rico, Inc. Puerto Rico Industrial Park P.O. Box 100 Carolina, PR 00986-0100 787-620-3000 Fax 787-750-3035

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